

What keeps security and development teams up at night?

Software Security



You need to ensure the software you deliver is secure and can be trusted

Why?

Software is the #1 attack surface for cybercriminals

Development Velocity



You need to ensure security testing doesn't impede the pace of development

Why?

Developers will reject tools & processes that slow them down

Business Risk



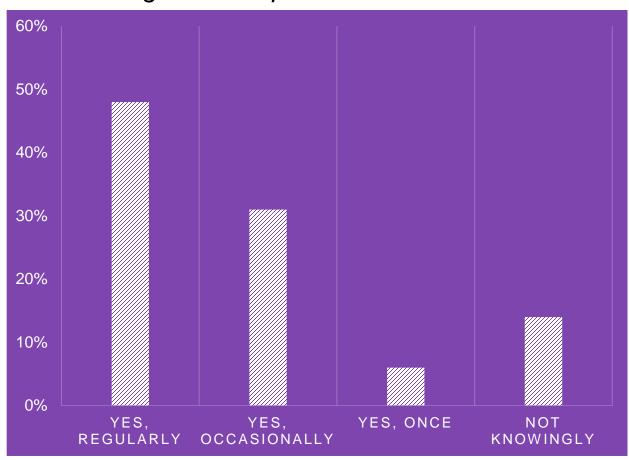
You need to identify and focus the true business risks buried in the sea of findings

Why?

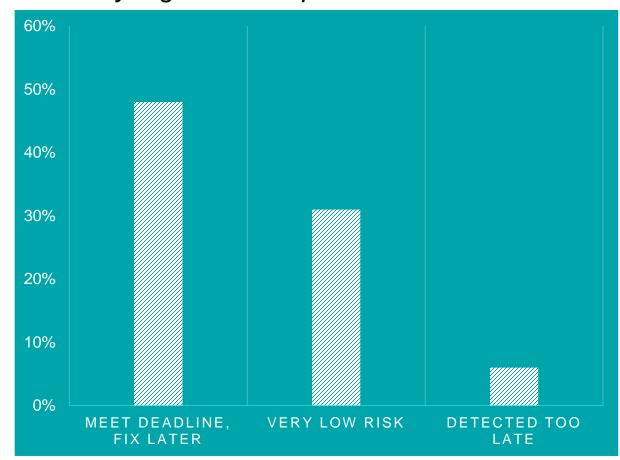
Teams are overwhelmed by vulnerability remediation

Organizations are pushing vulnerable code

Do organization push vulnerable code?



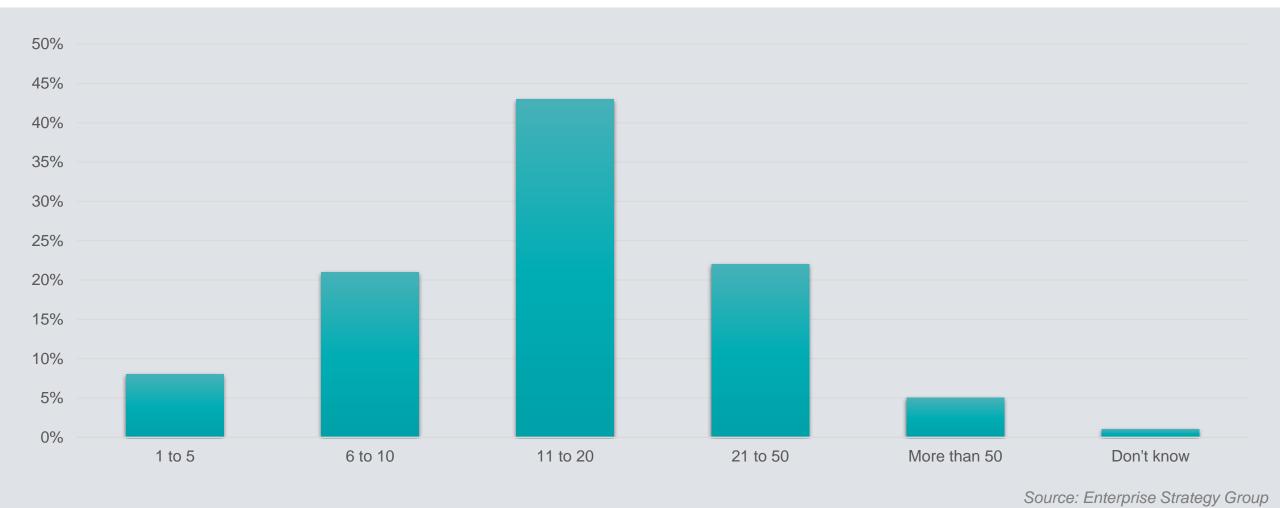
Why organizations push vulnerable code



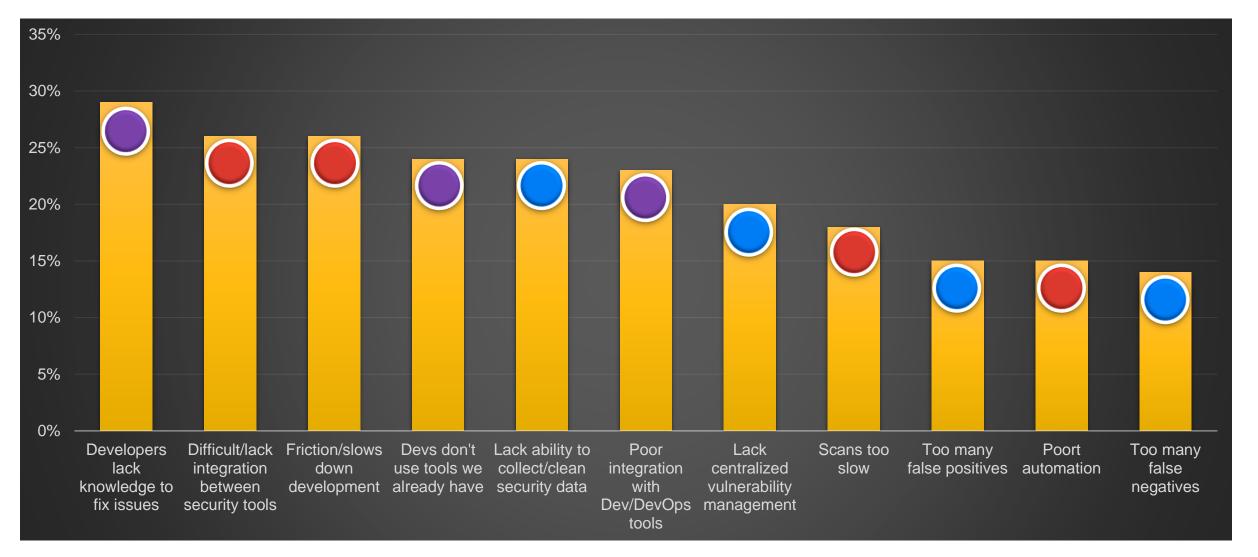
Source: Enterprise Strategy Group

The reality is that organizations have lots of AST tools

How many individual application security testing tools is your organization currently using?



Challenges impacting implementation of AST tools and processes



Source: Enterprise Strategy Group

Application security is evolving to meet the needs of DevOps



AppSec staff are being deployed into DevOps teams

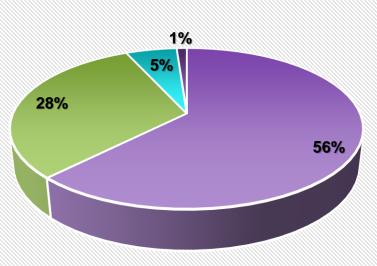
Continuous testing is on the rise

Teams are increasing use of "policy as code"

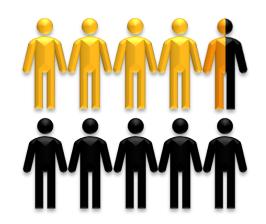
Tests becoming smaller, timely, more frequent

DevOps integration is important to AppSec programs

Level of DevOps and AppSec Integration



- We use a highly integrated set of security controls throughout our DevOps process
- We use selective controls, but continue to invest in integrating additional controls
- Our application security tools are not well integrated into our processes
- We are pushing security as far left as possible in our processes



43%
Believe DevOps
integration is most
important to improving
AppSec programs



Building trust in software is not simply about installing tools



It's about ensuring your people, processes, and technology are aligned to address security risks at all stages of the application lifecycle.

What many teams do today

Bolt-on DevSecOps

Isolated manual and automated AppSec activities

Complex, brittle, and slower build / release pipelines

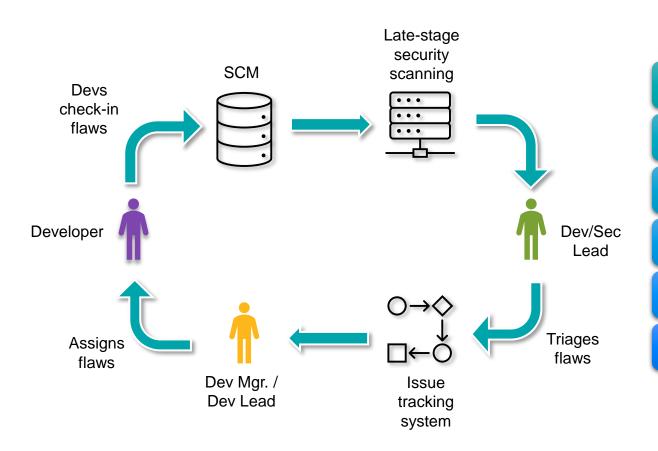
Lots of noise within the findings

Difficult to identify the highest-priority software risks

AST performance not aligned with build and release SLAs



Devs face their own challenges: DevOps + Security



Tool fatigue and impediment

Speed vs Quality conflict

Pipelines vary based on tech stacks

SDLC varies between apps

No uniform way to provide continuous feedback

Scaling remains a challenge





DevSecOps is not simply about integrating and automating AST tools.

It's about maximizing velocity by **intelligently running the right tests at the right time** and giving teams the ability to focus on issues that matter most to the business.

Defining a path toward DevSecOps



Velocity

Run just enough tests to meet security and risk needs without bogging down your pipelines or developers.

Efficient Efficacy

Accelerate testing, close DevOps feedback loops quickly, and address what matters most first.

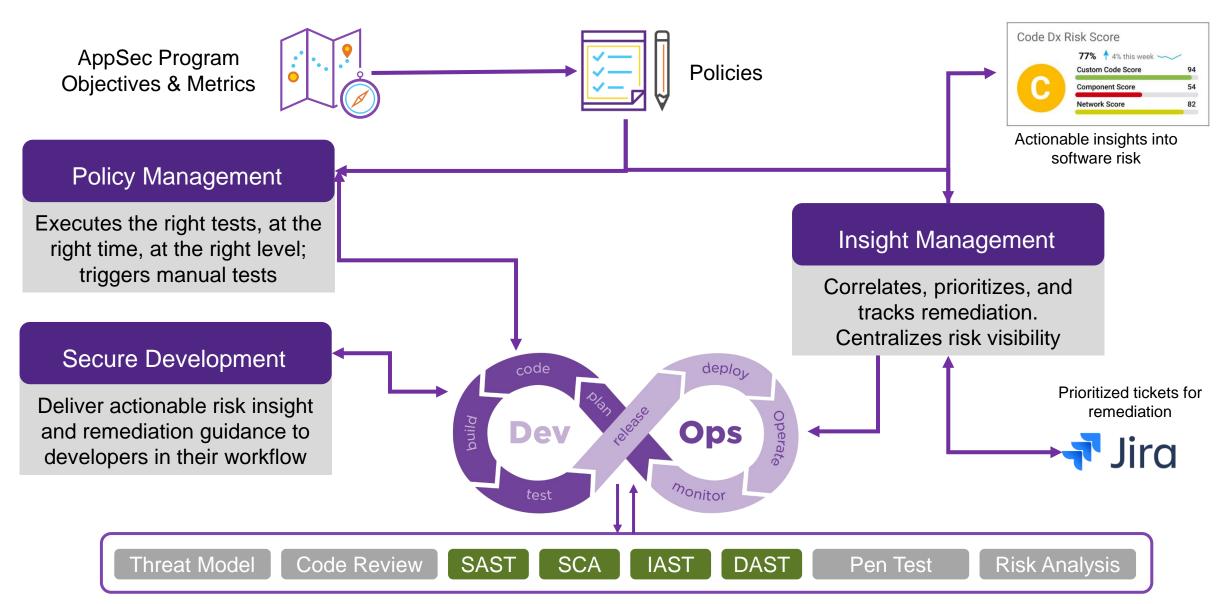
Security Enablement

Establish standards and foster risk awareness across the pipeline and functional roles.

Scale

Simplify the integration into pipelines to facilitate rapid deployment, with modular AST for contextual testing.

Consider this: Intelligent, policy-driven DevSecOps (NIST 800-53)



Secure Development

IDE-based rapid security testing (e.g., Synopsys Code Sight – SAST, SCA)



Secure code as it's being written

- Analyze source code, open source, and IaC
- Real-time alerts to new risks as devs code them.

Maintain development velocity

- IDE plugin suits existing dev workflows
- Flexible, rapid, automatic or on-demand scans

Write better code

- Detailed remediation guidance minimizes time to fix and raises developer security standards
- Find and fix security and quality defects.

Functional Security Tests

Get more "testing" without running more tests (e.g., Synopsys Seeker – IAST)

Analyze running apps in pre-production

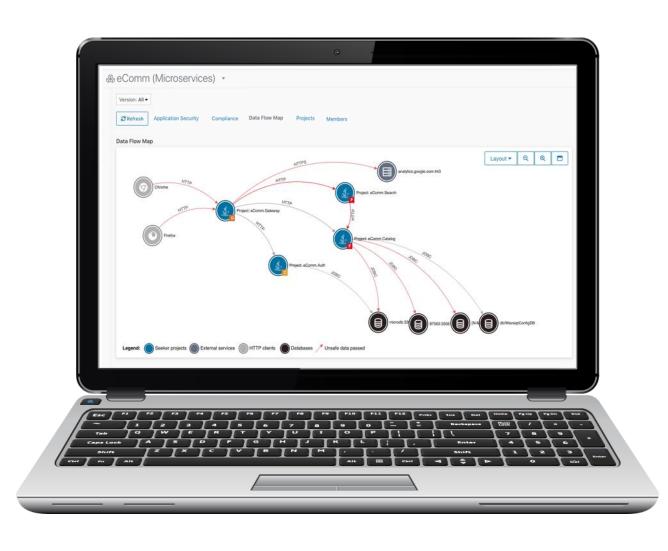
- Visibility into executed code and runtime data
- Continuous testing, real-time results, and automatic vulnerability verification
- Data protection compliance and leakage tracking

Test the spectrum of modern applications

- Web Apps, Web APIs, mobile app back-end, serverless functions, containers, or microservices
- Enhance protection against supply chain risks

Integrate for seamless detection and alerts

- Deploy and run via CI/CD
- Automatic ticket creation or pipeline interruption



API Security Tests

Discover and test APIs (e.g., Synopsys Seeker – API Testing)

Discover

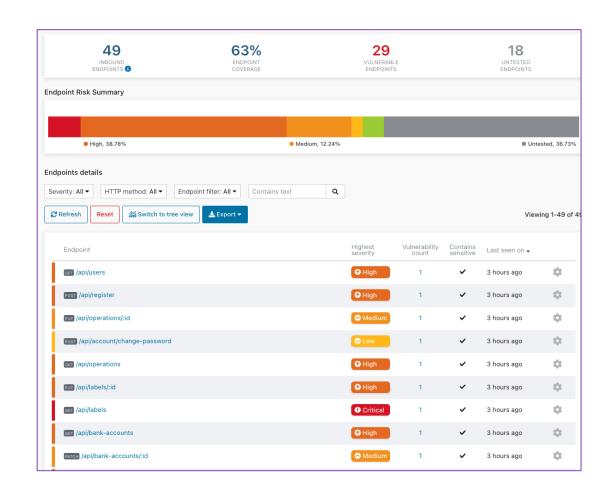
- Automatically discover all endpoints/APIs
- No upfront documentation requirements.

Assess

- Tools should automatically detect outbound endpoints/APIs used by the application.
- Simultaneous vulnerability assessment of APIs and Web interfaces.
- Provide a white/grey box experience.
- Complete inventory of endpoints with vulns and sensitive data.

Integrate

- Deploy and run via CI/CD.
- Support all modern infrastructure, including microservices, docker, k8s, cloud native, serverless, etc.



Dynamic Security Tests

Dynamic Application Security Testing (e.g., Synopsys WhiteHat – DAST)



Full Visibility

Delivers full visibility and the front line of defense for secure DevSecOps



Intelligent Prioritization

Automates the prioritization of results based on machine learning



Continuous and On-Demand Risk Assessments

Provides continuous and on-demand scanning to automatically check for vulnerabilities



Production-Safe

Scans production servers safely and without causing any downtime - saving valuable time, resources, and cost

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Insight Management – Application Security Orchestration & Correlation (ASOC)

Actionable insights into AppSec risks across the organization (e.g., Synopsys Code Dx)

Correlation and Prioritization

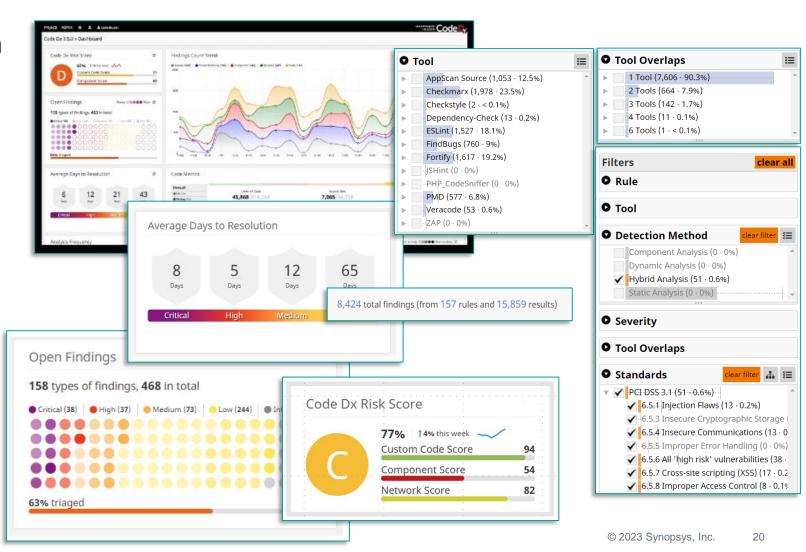
 Identify and focus on issues with the highest business risk

Consolidated Dashboard

 View of AppSec activities and software risks across your entire organization

AppSec System of Record

 Track when software was tested, what was found, and when/if it was fixed



Thank you

Visit **Synopsys.com/Software-Integrity** for more information.



Gartner Magic Quadrant for Application Security Testing (2023)

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